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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/059,271

DATE: 07/31/2002

TIME: 14:51:18

Input Set : A:\Albre-22.app

Output Set: N:\CRF3\07312002\J059271.raw

p.6

ENTERED

4 <110> APPLICANT: REPKE, HEINRICH  
 5 BUDDE, ECKHARD  
 6 NICOLAUS, STEFAN  
 8 <120> TITLE OF INVENTION: PROTEIN HAVING MULTIPLE ANTIGEN/EPITOPE SEQUENCES AND  
 9 BEING IMMOBILIZED  
 11 <130> FILE REFERENCE: ALBRE-22  
 13 <140> CURRENT APPLICATION NUMBER: 10/059,271  
 14 <141> CURRENT FILING DATE: 2002-01-31  
 16 <150> PRIOR APPLICATION NUMBER: DE 101 06 295  
 17 <151> PRIOR FILING DATE: 2001-02-02  
 19 <160> NUMBER OF SEQ ID NOS: 97  
 21 <170> SOFTWARE: PatentIn Ver. 2.1  
 23 <210> SEQ ID NO: 1  
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 34 <222> LOCATION: (4)..(5)  
 35 <223> OTHER INFORMATION: Any amino acid  
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 38 <221> NAME/KEY: MOD\_RES  
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 54 1 5 10 15  
 56 Gly  
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 60 <211> LENGTH: 19  
 61 <212> TYPE: PRT  
 62 <213> ORGANISM: Artificial Sequence

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64 <220> FEATURE:  
 65 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 66 peptide  
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 69 <221> NAME/KEY: MOD\_RES  
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 71 <223> OTHER INFORMATION: Any amino acid  
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 90 <222> LOCATION: (15)  
 91 <223> OTHER INFORMATION: Any amino acid  
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 96 <223> OTHER INFORMATION: Any amino acid  
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 100 1 5 10 15  
 102 Lys Xaa Gly  
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 106 <211> LENGTH: 22  
 107 <212> TYPE: PRT  
 108 <213> ORGANISM: Artificial Sequence  
 110 <220> FEATURE:  
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 112 peptide  
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 122 <223> OTHER INFORMATION: Any amino acid  
 124 <220> FEATURE:  
 125 <221> NAME/KEY: MOD\_RES  
 126 <222> LOCATION: (6)

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137 <223> OTHER INFORMATION: Asp or Glu
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145 <221> NAME/KEY: MOD_RES
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152 <223> OTHER INFORMATION: Any amino acid
154 <400> SEQUENCE: 3
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156      1              5              10              15
W--> 158 Lys Xaa Xaa Cys Xaa Gly
159      20
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165 <213> ORGANISM: Artificial Sequence
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168 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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173 <222> LOCATION: (4)..(5)
174 <223> OTHER INFORMATION: Any amino acid
176 <220> FEATURE:
177 <221> NAME/KEY: MOD_RES
178 <222> LOCATION: (7)
179 <223> OTHER INFORMATION: Any amino acid
181 <220> FEATURE:
182 <221> NAME/KEY: MOD_RES
183 <222> LOCATION: (11)..(13)
184 <223> OTHER INFORMATION: Any amino acid
186 <400> SEQUENCE: 4
W--> 187 Gly Val Ala Xaa Xaa Lys Xaa Lys Arg Arg Xaa Xaa Xaa Arg Glu Lys
188      1              5              10              15
190 Arg Ala Val Gly

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191          20
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200 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
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203 <400> SEQUENCE: 5
204 Trp Ile Gln Leu Gln Gln Arg Leu Asn Leu Trp Gly Cys Arg Gly Lys
205   1          5          10          15
207 Leu Ile Cys Tyr Thr Asn
208          20
211 <210> SEQ ID NO: 6
212 <211> LENGTH: 22
213 <212> TYPE: PRT
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
218     peptide
220 <400> SEQUENCE: 6
221 Trp Ile Gln Asn Gln Gln Leu Leu Asn Leu Trp Gly Cys Lys Gly Arg
222   1          5          10          15
224 Leu Val Cys Tyr Thr Asn
225          20
228 <210> SEQ ID NO: 7
229 <211> LENGTH: 22
230 <212> TYPE: PRT
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
235     peptide
237 <400> SEQUENCE: 7
238 Trp Leu Gln Asn Gln Gln Ile Leu Asn Leu Trp Gly Cys Lys Gly Arg
239   1          5          10          15
241 Leu Ile Cys Tyr Thr Asn
242          20
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246 <211> LENGTH: 22
247 <212> TYPE: PRT
248 <213> ORGANISM: Artificial Sequence
250 <220> FEATURE:
251 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
252     peptide
254 <400> SEQUENCE: 8
255 Trp Leu Gln Ser Gln Gln Leu Leu Ser Asn Trp Gly Cys Arg Gly Lys
256   1          5          10          15
258 Leu Val Cys Tyr Thr Asn
259          20

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Input Set : A:\Albre-22.app

Output Set: N:\CRF3\07312002\J059271.raw

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262 <210> SEQ ID NO: 9
263 <211> LENGTH: 24
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268 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
269     peptide
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272 Ala Ile Glu Arg Tyr Leu Gln Asp Gln Ala Arg Leu Asn Ser Trp Gly
273   1             5             10             15
275 Cys Thr Phe Arg Gln Val Cys His
276             20
279 <210> SEQ ID NO: 10
280 <211> LENGTH: 24
281 <212> TYPE: PRT
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284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
286     peptide
288 <400> SEQUENCE: 10
289 Ala Met Glu Lys Tyr Leu Arg Asp Gln Ala Ile Val Asn Ser Trp Gly
290   1             5             10             15
292 Cys Ala Phe Arg Gln Val Cys Tyr
293             20
296 <210> SEQ ID NO: 11
297 <211> LENGTH: 24
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
303     peptide
305 <400> SEQUENCE: 11
306 Ala Met Glu Lys Tyr Leu Lys Asp Gln Ala Arg Leu Asn Ser Trp Gly
307   1             5             10             15
309 Cys Ala Phe Arg Gln Val Cys His
310             20
313 <210> SEQ ID NO: 12
314 <211> LENGTH: 24
315 <212> TYPE: PRT
316 <213> ORGANISM: Artificial Sequence
318 <220> FEATURE:
319 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
320     peptide
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323 Ala Ile Glu Lys Tyr Leu Lys His Gln Ala Gln Leu Asn Ala Trp Gly
324   1             5             10             15
326 Cys Ala Phe Arg Gln Val Cys His
327             20
330 <210> SEQ ID NO: 13

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/059,271DATE: 07/31/2002  
TIME: 14:51:19Input Set : A:\Albre-22.app  
Output Set: N:\CRF3\07312002\J059271.rawPlease Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 4,5,7,10,13,14  
Seq#:2; Xaa Pos. 2,5,8,12,15,18  
Seq#:3; Xaa Pos. 2,4,6,8,12,16,18,19,21  
Seq#:4; Xaa Pos. 4,5,7,11,12,13  
Seq#:86; Xaa Pos. 136,137,139,142,145,146,151,153,155,157,161,165,167,168  
Seq#:86; Xaa Pos. 170,290,293,296,300,303,306,309,311,313,315,319,323,325  
Seq#:86; Xaa Pos. 326,328,407,408,410,413,416,417,422,425,428,432,435,438  
Seq#:86; Xaa Pos. 441,443,445,447,451,455,457,458,460,592,593,595,598,601  
Seq#:86; Xaa Pos. 602,607,610,613,617,620,623,626,628,630,632,636,640,642  
Seq#:86; Xaa Pos. 643,645  
Seq#:88; Xaa Pos. 65,66,68,71,74,75,80,83,86,90,93,96,99,101,103,105,109  
Seq#:88; Xaa Pos. 113,115,116,118,290,291,293,296,299,300,305,308,311,315  
Seq#:88; Xaa Pos. 318,321,324,326,328,330,334,338,340,341,343,404,405,407  
Seq#:88; Xaa Pos. 410,413,414,419,422,425,429,432,435,438,440,442,444,448  
Seq#:88; Xaa Pos. 452,454,455,457,614,615,617,620,623,624,629,632,635,639  
Seq#:88; Xaa Pos. 642,645,648,650,652,654,658,662,664,665,667,771,772,774  
Seq#:88; Xaa Pos. 777,780,781,786,789,792,796,799,802,805,807,809,811,815  
Seq#:88; Xaa Pos. 819,821,822,824  
Seq#:90; Xaa Pos. 35,36,38,41,44,45,50,53,56,60,63,66,69,71,73,75,79,83,85  
Seq#:90; Xaa Pos. 86,88,162,163,165,168,171,172,177,180,183,187,190,193,196  
Seq#:90; Xaa Pos. 198,200,202,206,210,212,213,215,260,261,263,266,269,270  
Seq#:90; Xaa Pos. 275,278,281,285,288,291,294,296,298,300,304,308,310,311  
Seq#:90; Xaa Pos. 313,355,356,358,361,364,365,370,373,376,380,383,386,389  
Seq#:90; Xaa Pos. 391,393,395,399,403,405,406,408  
Seq#:92; Xaa Pos. 226,227,229,232,235,236,241,244,247,251,254,257,260,262  
Seq#:92; Xaa Pos. 264,266,270,274,276,277,279,523,524,526,529,532,533,538  
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Seq#:92; Xaa Pos. 1335,1336,1338,1341,1344,1345,1350,1353,1356,1360,1363  
Seq#:92; Xaa Pos. 1366,1369,1371,1373,1375,1379,1383,1385,1386,1388,1845  
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Seq#:92; Xaa Pos. 2534,2536,2538,2542,2546,2548,2549,2551  
Seq#:94; Xaa Pos. 12,13,15,18,21,22,27,30,33,37,40,43,384,385,387,390,393  
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Seq#:96; Xaa Pos. 266,269,272,274,276,278,282,286,288,289,291,373,374,376  
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Seq#:96; Xaa Pos. 421,423,424,426